

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 241-365	DATE OF ISSUANCE MAR 5 1996
	TERM OF ISSUANCE conditional	
	NAME OF PESTICIDE PRODUCT Plateau Herbicide	

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
 (Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

American Cyanamid Company  
 Agricultural Research Division  
 P.O. Box 400  
 Princeton, NJ 08543-0400

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use(s) on peanut nut meat is (are) conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:  
 U.S. Environmental Protection Agency  
 Office of Pesticide Programs (7504C)  
 Document Processing Desk (RSB)  
 401 M Street, S.W., CM #2  
 Washington, D.C. 20460

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL  
 RGT

DATE  
 3/5/96

3. Add the phrase, "EPA Registration No. 241-365 and submit five (5) copies of your final printed labeling before you release the product for shipment.
4. Submit the following Ecological Effects data:
  - a.) 71-4(a): Avian reproduction study using bobwhite quail; b.) 71-4(b): Avian reproduction study using mallard duck; 72-4(a): Fish early life-stage test; and 72-4(b): Freshwater aquatic invertebrate life-cycle study.

Within 60 days following the registration of Cadre, the company agrees to provide the Agency with a formal waiver request for the avian reproduction (quail and mallard), fish early life stage and freshwater aquatic invertebrate life cycle data requirements. If upon review of the waiver requests, The Agency maintains the requirements for the Tier II eco-toxicology studies, the registrant shall have two years from the date of this decision to submit these studies.

5. Submit the following Environmental Fate and Ground Water data within three years of the date of this letter:
  - a.) Prospective Ground Water Study

It is suggested that you contact the Agency before implementing this study.

A stamped label is enclosed for your records.

FOR WEED CONTROL AND TURF GROWTH SUPPRESSION  
ON ROADSIDES AND OTHER NONCROP AREAS

ACTIVE INGREDIENT:

(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid,  
(ammonium salt of\*) ..... 23.6%

INERT INGREDIENTS ..... 76.4%

TOTAL ..... 100.0%

\*Equivalent to 22.2% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid

(1 gallon contains 2.0 pounds of active ingredient as the free acid)

EPA Reg. No. 241-

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION!

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

- IF INHALED: Remove victim to fresh air.
- IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
- IF IN EYES: Flush with plenty of water.

See Next Page for Additional Precautionary Statements

In case of an emergency endangering life or property involving this product, call collect, day or night, area code 201-835-3100

American Cyanamid Company  
Agricultural Products Division  
Specialty Products Department  
Wayne, NJ 07470 ©1996

Net Contents:

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ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAR - 5 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
241-365

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION!

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

For terrestrial use only. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

**DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

#### IMPORTANT

**DO NOT** use on food or feed crops or on areas which may be rotated to food or feed crops. **DO NOT** treat the inside of irrigation or drainage ditches. **DO NOT** apply or rinse equipment on or near desirable trees or ornamental plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. **DO NOT** use on lawns, walks, golf courses, driveways, tennis courts, or similar areas.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This labeling must be in the possession of the user at the time of pesticide application.

**DO NOT** use on pasture, rangeland, or prairiegrass to be used for grazing, or to be cut for hay.

**DO NOT** use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Observe all cautions and limitations on this label and on the labels of products used in combination with AC 263,222 herbicide. Do not use AC 263,222 herbicide other than in accordance with the instructions set forth on this label. The use of AC 263,222 herbicide not consistent with this label may result in injury to turf. Keep containers closed to avoid spills and contamination.

**DO NOT** apply this product through any type of irrigation system.

## STORAGE AND DISPOSAL

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### PROHIBITIONS:

KEEP FROM FREEZING

DO NOT store below 20°F.

DO NOT contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

### DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Turf injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF AC 263,222 herbicide herbicide. In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY. User assumes the risk of any use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company.

## USES WITH OTHER PRODUCTS (TANK-MIXES)

If this product is used in combination with any other product except as specifically recommended in writing by American Cyanamid Company then American Cyanamid Company shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by American Cyanamid Company, the liability of American Cyanamid Company shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the American Cyanamid Company product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the American Cyanamid Company product.

### GENERAL INFORMATION

AC 263,222 herbicide provides weed control and turf height suppression on unimproved turf such as roadsides, airports, military installations and other similar noncrop areas. When applied as recommended, AC 263,222 herbicide will selectively control weeds in bahiagrass, bermudagrass, smooth brome grass and wheatgrass and suppress turf height and undesirable seed head production (see TURF SPECIES). AC 263,222 herbicide can also be used to renovate and restore native prairiegrasses (see NATIVE PRAIRIEGRASS RENOVATION AND RESTORATION).

The weed killing activity involves uptake of AC 263,222 herbicide by weed roots and/or foliage and rapid translocation to the growing points. After AC 263,222 herbicide application, susceptible weeds may show yellowing and weed growth will stop. Several days may be required before the complete death of susceptible weeds. Adequate soil moisture is important for optimum AC 263,222 herbicide activity. When adequate soil moisture is present, AC 263,222 herbicide will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

AC 263,222 herbicide may be applied in the dormant or growing season. Applications during the dormant season will provide partial residual weed control and turf growth suppression when green up occurs.

Some yellowing of turf may occur with applications during the growing season. Depending on weather conditions, yellowing will usually disappear in 2 to 4 weeks.

Apply **ONLY** to **ESTABLISHED** turf and grasses except those listed in prairiegrass renovation and restoration section.

### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Use a calibrated measuring device to measure the required amount of AC 263,222 herbicide. Add AC 263,222 herbicide to the spray tank while agitating. Fill the remainder of the tank with water.

For postemergence applications, add a surfactant to the spray tank (See Adjuvants section of this label for specific recommendations). Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

When tank-mixing AC 263,222 herbicide with recommended herbicides, add AC 263,222 herbicide to the spray tank first and make sure it is thoroughly mixed before adding the other herbicide.

### SPRAYING INSTRUCTIONS

DO NOT apply when wind velocity is greater than 10 mph, or when spray may be carried to sensitive crops. DO NOT apply if rainfall is threatening. Rainfall within 1 hour after AC 263,222 herbicide application may reduce weed control.

#### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

Adjust the boom height to ensure proper coverage of weed foliage or soil surface (according to the manufacturer's recommendation).

DO NOT apply by helicopter, airplane, or other aerial equipment.

Avoid overlaps when spraying.

### APPLICATION INSTRUCTIONS

Apply AC 263,222 herbicide postemergence to established unimproved turf in noncrop areas at rates of 2 to 12 ounces of product per acre depending on weeds present and turf species. Consult the WEEDS CONTROLLED section and TURF SPECIES section of this label for specific rates. Higher rates will result in longer residual weed control and turf height suppression. AC 263,222 herbicide can also be applied preemergence or postemergence for the renovation and restoration of native prairiegrasses (see NATIVE PRAIRIEGRASS RENOVATION AND RESTORATION).

DO NOT apply more than 4 ounces of AC 263,222 herbicide per acre to bahiagrass with a single application.

DO NOT exceed 12 ounces of AC 263,222 herbicide per acre in one year.

### SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS

**Nonionic Surfactants:** Use a nonionic surfactant at the rate 0.25% v/v or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 80% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

**Methylated Seed Oils or Vegetable Oil Concentrates:** Instead of a surfactant, a vegetable based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre.

**Fertilizer/Surfactant Blends:** Nitrogen based liquid fertilizers such as 28%N, 32%N or 10-34-0 may be added at the rate of 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without a nonionic surfactant is not recommended.

**Silicone Based Surfactants:** See manufacturer's label for specific rate recommendations.

### TANK MIXES

AC 263,222 herbicide may be tank-mixed with Roundup<sup>1</sup>, Campaign<sup>1</sup>, Oust<sup>2</sup>, Garlon 3A<sup>3</sup>, MSMA, Banvel<sup>4</sup>, or PENDULUM<sup>5</sup> to broaden the spectrum of control.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

### WEEDS CONTROLLED

Controlled at 4 to 12 oz. AC 263,222 herbicide per acre\*

#### **BROADLEAF WEEDS**

Crownbeard, Golden

(*Verbesina encelioides*)

Indigo, Hairy

(*Indigofera hirsuta*)

Lambsquarters, Common

(*Chenopodium album*)

Leafy spurge\*\*

(*Euphorbia esula*)

Morningglory

    Cypressvine

(*Ipomoea quamoclit*)

    Entireleaf

(*Ipomoea hederacea* var. *integriscula*)

    Ivyleaf

(*Ipomoea hederacea*)

    Pitted

(*Ipomoea lacunosa*)

    Smallflower

(*Jacquemontia tamnifolia*)

    Tall

(*Ipomoea purpurea*)

Poinsettia, Wild

(*Euphorbia heterophylla*)

Pigweed spp.

(*Amaranthus* species)

Pusley, Florida

(*Richardia scabra*)

Radish, Wild

(*Raphanus raphanistrum*)

Ragweed, Common

(*Ambrosia artemisiifolia*)

Senna, Coffee

(*Cassia occidentalis*)

Sicklepod

(*Cassia obtusifolia*)

Sida, Prickly

(*Sida spinosa*)

Starbur, Bristly

(*Acanthospermum hispidum*)

#### **GRASS WEEDS**

Crabgrass

    Large

(*Digitaria sanguinalis*)

    Smooth

(*Digitaria ischaemum*)

Crowfootgrass

(*Dactyloctenium aegyptium*)

Goosegrass

(*Eleusine indica*)

Johnsongrass

(*Sorghum halepense*)

Panicum

    Fall

(*Panicum dichotomiflorum*)

    Texas

(*Panicum texanum*)

Sandbur spp.

(*Cenchrus* species)

Signalgrass, Broadleaf

(*Brachiaria platyphylla*)

\*Use higher rates where heavy or well established infestations occur. Do not apply more than 4 ounces of AC 263,222 herbicide to bahiagrass turf with one application.

\*\*See LEAFY SPURGE CONTROL section



WEEDS CONTROLLED (Cont.)

Controlled at 4 to 12 oz. AC 263,222 herbicide per acre\*

**SEDGES**

Nutsedge

Purple

Yellow

(*Cyperus rotundus*)

(*Cyperus esculentus*)

\*Use higher rates where heavy or well established infestations occur. Do not apply more than 4 ounces of AC 263,222 herbicide to bahiagrass turf with one application.

**LEAFY SPURGE CONTROL**

AC 263,222 herbicide should be used in either of two methods. For best results, apply AC 263,222 herbicide at 8 oz per acre in the fall 2 weeks prior to a killing frost (late August through mid-October) followed by 4 oz per acre the following spring (late May-June). AC 263,222 herbicide may also be applied at 12 oz per acre in the fall but do not apply AC 263,222 herbicide to this acreage the following spring. For best results, always use a methylated seed oil at 2 pints plus 2 pints per acre of Nitrogen fertilizer (See Adjuvant Section). Efficacy may be reduced without this adjuvant combination. The use of nonionic and silicone based surfactants have resulted in little or no control of leafy spurge. Approximate dates for fall timing in North and South Dakota are August through September 15 and for Nebraska and Iowa are September through mid-October. This application should be made after good soil moisture is present, but prior to a killing frost.

TURF SPECIES

On the following species apply rates of 2 to 4 oz. of AC 263,222 herbicide for growth suppression.

Bahiagrass

(*Paspalum notatum*)

On the following species apply rates of 4 to 8 oz. of AC 263,222 herbicide for growth suppression.

Wheatgrass

(*Agropyron species*)

On the following species apply rates of 4 to 12 oz. of AC 263,222 herbicide for growth suppression.

Bermudagrass

(*Cynodon dactylon*)

Smooth Bromegrass

(*Bromus inermis*)

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### NATIVE PRAIRIEGRASS RENOVATION AND RESTORATION

Common Name	Prairiegrass Genus species	AC 263,222 herbicide Rate (oz/A)*	
		**Preemergence	Postemergence
Big Bluestem	<i>Andropogon gerardii</i>	4-12	4-12
Little Bluestem	<i>Andropogon scoparius</i>	4-12	4-12
Indiangrass	<i>Sorghastrum nutans</i>	4-12	4-12
Sideoats Grama	<i>Bouteloua curtipendula</i>	4	4-8
Blue Grama	<i>Bouteloua gracilis</i>	4	4-8
Buffalograss	<i>Buchloe dactyloides</i>	4	4-8

\* High rates may result in stunting and growth suppression.

\*\* Application timing relative to grass seeding and should be based on requirements to achieve effective weed control

1 Trademark of Monsanto Company

2 Trademark of E.I. Dupont DeNemours and Company

3 Trademark of Dow Chemical Company

4 Trademark of Sandoz AG

5 Trademark of American Cyanamid Company